

Name: _____

p1029: Box multiplication of linear binomials (v20)

Example

Use the box method to multiply $(6x + 3)$ and $(2x + 4)$.

*	6x	3	
2x	$12x^2$	6x	$12x^2 + 6x + 24x + 12$
4	24x	12	Combine like terms.
			$12x^2 + 30x + 12$

ANSWER: $12x^2 + 30x + 12$

Question 1

Use the box method to multiply $(7x + 8)$ and $(4x + 3)$.

*	7x	8	
4x	$28x^2$	32x	
3	21x	24	

ANSWER: $28x^2 + 53x + 24$

Question 2

Use the box method to multiply $(-6x + 2)$ and $(-9x - 3)$.

*	$-6x$	2
$-9x$	$54x^2$	$-18x$
-3	$18x$	-6

ANSWER: $54x^2 + 0x - 6$

Question 3

Use the box method to multiply $(2x - 9)$ and $(-7x - 5)$.

*	$2x$	-9
$-7x$	$-14x^2$	$63x$
-5	$-10x$	45

ANSWER: $-14x^2 + 53x + 45$